SIEMENS

SIREMOBIL

SP

System Manual

Installation and setting instructions

DICOM Bridge, extension of Get Worklist function

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Document status

This document corresponds to the current status at the time of system delivery.

The paper printout is not covered by the change service.

Current documents can be ordered from your responsible Siemens branch.

Disclaimer

Installation and service of the systems described here must be performed by a qualified skilled person who is employed either by Siemens or one of its associated companies or is authorized from there.

Installation engineers and other employees who are not employed by Siemens or by the technical service of one of its associated companies or directly connected with it are instructed to contact the local branch of Siemens or of its associated company before performing installation or service work.

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Note on patient images

⚠ **WARNING**	**Loss of all patient images!**

The hard disk must be erased completely during the startup of the DICOM Bridge.

Before the hard disk is erased, inform the customer that after the startup all patient images (including the write-protected patient images) are deleted and no longer available.

If a Memoskop with MOD drive is available, the still required patient images can be saved onto MOD.

If a Multispot camera or laser camera is available, the still required patient images can be exposed onto film.

Prerequisite

NOTE	**This document is valid for the upgrade of the function "DICOM Get Worklist" for an already installed DICOM Bridge without DICOM Get Worklist functionality.**

However, the "DICOM Get Worklist" Upgrade Kit is also supplied for older systems in connection with new deliveries of the DICOM Bridge. In these cases, the procedures according to the DICOM Bridge SPR2-130.033.04 revision status $\geq$ 05 Installation and Setting Instructions are to be followed and these Installation and Setting Instructions are to be discarded.

The required customer-specific data are marked by [x] in these installation instructions, whereby x stands for the relevant reference to the questionnaire in Chapter 2. Transfer the data corresponding to the references into the entry masks.

The descriptions and illustrations were created with the WINDOWS 95 operating program and software versions current at the time of printing. When using a different operating system or more recent software versions, the illustrations, sequences and software versions can differ slightly.

Safety note

⚠ WARNING	**Avoiding minor to severe physical injuries - which can lead to death and avoiding material damage.**

The product-specific safety notes stated in the system folder and the safety notes stated in ARTD Part 2 must be complied with.

After conclusion of all work and after attachment of all covers perform the protective ground wire test according to ARTD-002.731.17. The protective ground wire resistance must not exceed 0.2 ohms.

Checks or settings which must be performed with X-ray radiation switched on are marked by the radiation symbol ⚠.
Radiation protection clothing must be worn when performing operations thus marked.

Documents required

Per existing system:

SIREMOBIL installation and setting instructions DICOM Bridge	SPR2-130.033.04...

and

SIREMOBIL Compact wiring diagram	G5429
SIREMOBIL Compact logbook	SPR2-130.066.01...

or

SIREMOBIL Iso-C wiring diagram	G5464
SIREMOBIL Iso-C logbook	SPR2-230.066.01...

or

POWERMOBIL - wiring diagram	G5481
POWERMOBIL - system binder	SPR2-240.802.01...

or

ARCOSKOP - wiring diagram	G5484
ARCOSKOP - system binder	SPR2-250.802.01...

Tools and measuring instruments required

NOTE	**All tools and measuring instruments with the exception of those marked with "*" are listed with their specifications in the STC (Service Tool Catalog).**

- Tool case*
- 1 set of Allen wrenches*
- Digital multimeter   (e.g. "Fluke 8060 A", Part No. 97 02 101)
- Protective ground wire tester   (e.g. "Safety Tester Bender UNIMET 1000 ST", Part No. 51 38 727)
- Service PC with WINDOWS 95 operating system *
- Service software *
- Serial interface cable "Service-PC - SIREMOBIL" (e.g. Part No. 99 00 440)

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General

A DICOM Bridge is available as an option for the SIREMOBIL Compact and SIREMOBIL Iso-C systems. This option is a personal computer with special hardware and software for transmitting patient images.

New DICOM GET WORKLIST function

The DICOM Get Worklist function is available after installation of this software package. A worklist station from which a worklist can be queried and transmitted to the SIREMOBIL e.g. POWERMOBIL or ARCOSKOP can be configured.

DICOM Conformance Statements for the DICOM Bridge

The DICOM Conformance Statement must be made available to the customer or his/her system administrator. It is published through the SIEMENS Intranet.

Operating system used

Microsoft WINDOWS NT 4.0 is used as the operating system of the Dicom Bridge.

Notes on the tables

To be able to perform installation / start-up of the "DICOM Get Worklist" function of the DICOM Bridge option, you must clarify and record the customer-specific data for the DICOM Bridge. This should be done prior to installation if possible.

The data determined must be transferred to the corresponding files of the DICOM Bridge during start-up. For this purpose, the reference identifications stated in the "Worklist Station" table are marked by the character combination [x], whereby x stands for the relevant reference number.

Please contact the customer or the customer's system administrator / network administrator to determine the data required.

Contact person representing the customer:

Last name	
First name	
City/town	
Building	
Telephone	
Internal telephone direct dialing number (extension)	
Fax	
Notes	
Notes	

Worklist station

A worklist station (DICOM Get Worklist function) from which a worklist can be queried and transmitted to the SIREMOBIL can be configured.

	Manufacturer:	**Copy of the DICOM Conformance Statement available?**
Worklist station		

DICOM Bridge Get Worklist programming

What	Definition of the system administrator	Remarks	Ref. to employee
Name of the worklist station		Maximum length: 20 characters Valid characters: A..Z; a..z; 0..9; _ The name can be assigned freely, it is not used for identification in the computer network	[1]
AE_TITLE (Application entity title of the worklist station with the DICOM "Get Worklist" function)		User program name of the worklist station (DICOM name)	[2]
Host name of the worklist station		Host names of the worklist station	[3]
IP address of the worklist station		IP address of the worklist station, please state in the format "000.000.000.000"	[4]
Port number of the network connection		Default = 104	[5]

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Flowcharts

System software upgrade flowchart

NOTE	**With existing POWERMOBIL or ARCOSKOP systems, the system software needs not to be downloaded.**
	Continue with section MEMOSKOP software upgrade flow chart.

The system software upgrade flowchart shows only the main working steps. Please follow the flowchart path in case of problems during the SW upgrade.

```
                    ╭──────────────────╮
                   │   SW Upgrade       │
                   │  System Software   │
                    ╰──────────────────╯
                            │
                   ┌──────────────────┐
                   │  Install new      │
                   │  system SW on     │
                   │  the service PC   │
                   └──────────────────┘
                            │
            ┌───────────────┴──────────────┐
   ┌──────────────────┐          ┌──────────────────┐
   │  Save system     │          │  Check service   │
   │  parameters on   │          │  PC settings. See│
   │  disk            │          │  page 3-3,       │
   └──────────────────┘          │  Prerequisities  │
            │                    └──────────────────┘
         ◇ Saving                         │
        the parameters ──No──────────────┘
           OK?
            │
           Yes
            │
   ┌──────────────────┐          ┌──────────────────┐
   │  Download System │          │  Check service   │
   │  Software        │          │  PC settings. See│
   └──────────────────┘          │  page 3-3,       │
            │                    │  Prerequisites   │
         ◇ Download              └──────────────────┘
           OK?    ──No──────────────────┘
            │
           Yes
            │
        ╭────────╮
       │   END    │
        ╰────────╯
```
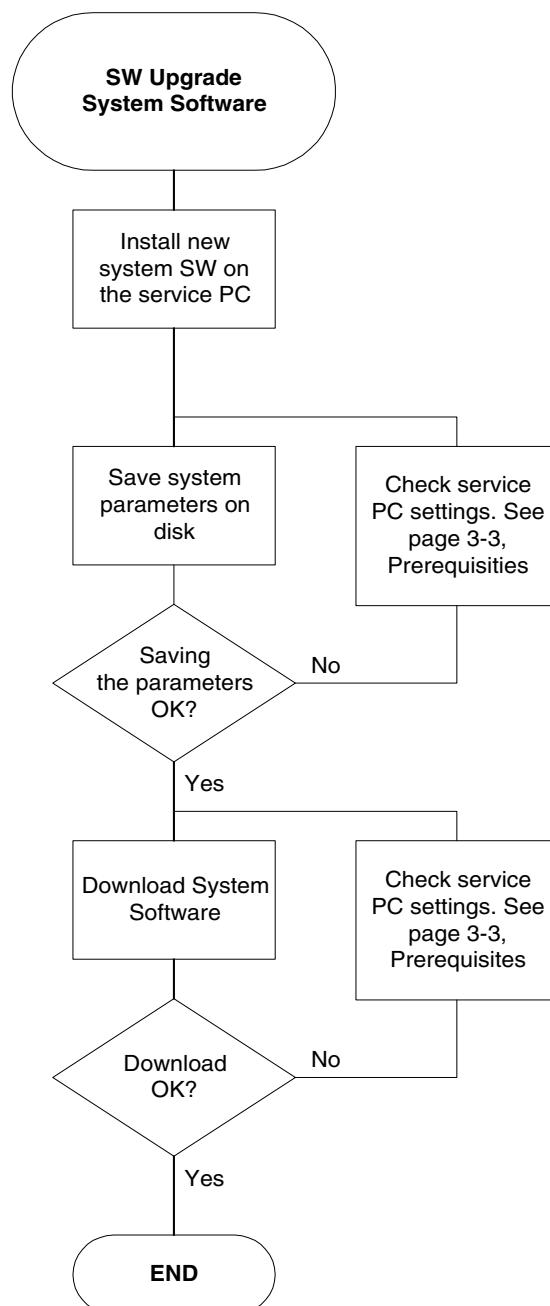
MEMOSKOP software upgrade flowchart

The MEMOSKOP software upgrade flowchart shows only the main working steps.
Please follow the flowchart in case of problems during the SW upgrade.
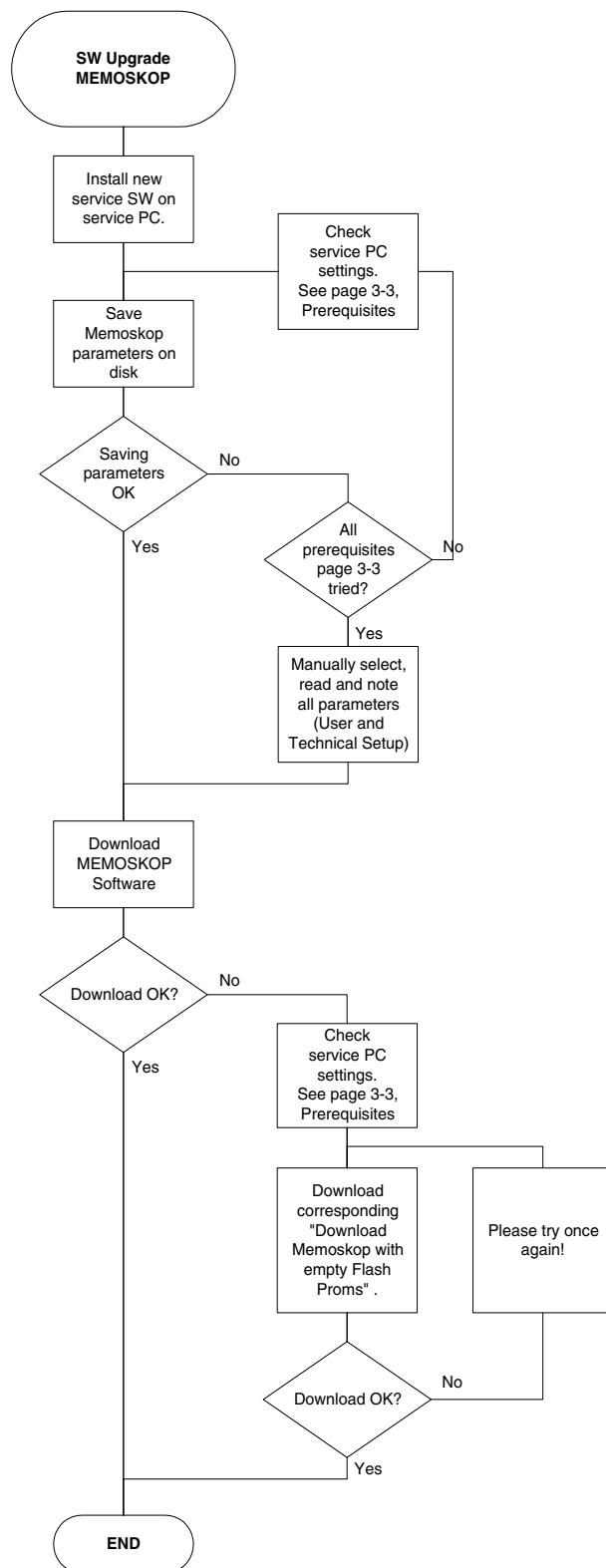
Software upgrade

Prerequisites

NOTE	Please observe PC settings!

Please observe the following points before starting the SW upgrade:
- The serial cable used must be completely wired and in order.
- The screensaver and all programs running in the background must be deactivated on the service PC.
- Check jumpers D1.X95 / D1.D96 / D1.X 99. They should be in position 2-3.
- Check the settings of the serial interface used on your service PC.
  SIREMOBIL Compact / Compact L or SIREMOBIL Iso-C
  Host service software: Activate the FIFO settings (default setting).
  Memoskop service software: Activate the FIFO settings (default settings).
  POWERMOBIL or ARCOSKOP:
  Host service software: Activate the FIFO settings (default settings).
  Memoskop FAST service software :   Deactivate the FIFO settings.
- In case of correct communication with the host, but faulty communication with the Memoskop, temporarily set switch D1. S3.2 to the ON position.
  After restarting the Memoskop service program, ignore the "No communication with the X-ray system" error message and press the "Ignore" button.
  Then select the installed Memoskop type and start the necessary service work for the Memoskop.
  After completing the Memoskop service work, set switch D1.S3.2 back to the OFF position.
- Do not use the incompatible service PC "SCENIC MOBILE 350".

Installation of the system service software on the service PC

NOTE	Before installation or use of the system or Memoskop service software, the write protection of the corresponding parameter disk must be deactivated.

NOTE	With existing POWERMOBIL or ARCOSKOP systems, only the Memoskop service software needs to be installed on the service PC.

- Install the Memoskop service software (3 floppy disks, material number 3099715 G5437) on the service PC.

- If a SIREMOBIL Compact / L system is in use, install the system software (material number 3099731 G5437) on the service PC.

- If a SIREMOBIL Iso-C system is in use, install the system software (material no. 2829955 G5464) on the service PC.

Preparations

- Open the rear cover of the monitor cart (necessary for installation of the DICOM Bridge software).

- Open the cover of the DICOM Bridge. For this purpose, depending on the installation location, the DICOM Bridge may have to be removed mechanically. The cover of the DICOM Bridge is held on the side with Velcro closures. A mounting screw on the back must be loosened. The built-in disk drive becomes accessible after lifting off the cover (necessary for transferring the new DICOM software files).

Saving the system parameters on disk

| NOTE	With existing POWERMOBIL or ARCOSKOP systems, skip this section. Continue with section Saving the patient images.
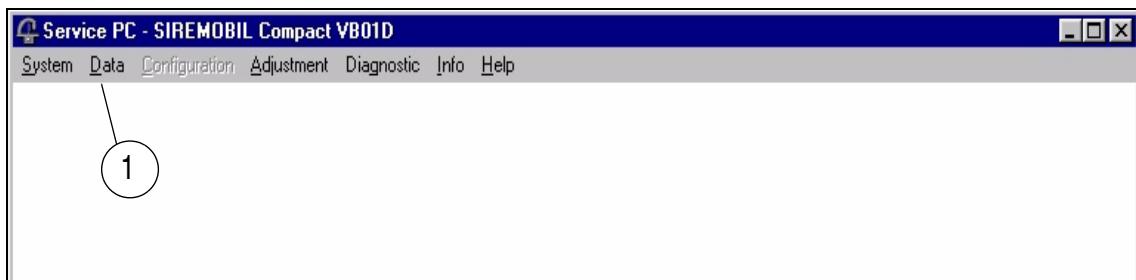
Fig. 1

- Connect the service PC to the serial interface of the SIREMOBIL.

- Insert parameter disk 2- of the SIREMOBIL system software from the update kit in drive A of the service PC.

- Start the system service software on the service PC and log in ("System" menu - "Connect", "Logon" button).

- Answer the prompt "Password has been changes. Put new Password to Unit?" by clicking on the "Yes" button.

- Close the info window "Password expires on 00:00:00" by clicking on the "OK" button.

- The program window " Service PC- SIREMOBIL .... " (Fig. 1) is displayed.

- Select the "Data" - "Backup" menu.

- Select the "Parameters" line in the window (mark checkbox) and start the backup. The displayed remarks line can remain empty.

- Then return to the main menu.

Download of the system software

NOTE	With existing POWERMOBIL or ARCOSKOP systems, skip this section. Continue with section Saving the patient images.

- Select the "Data" menu in the " Service PC- SIREMOBIL .." main window (1/Fig. 1).
- Select the "Download" menu.
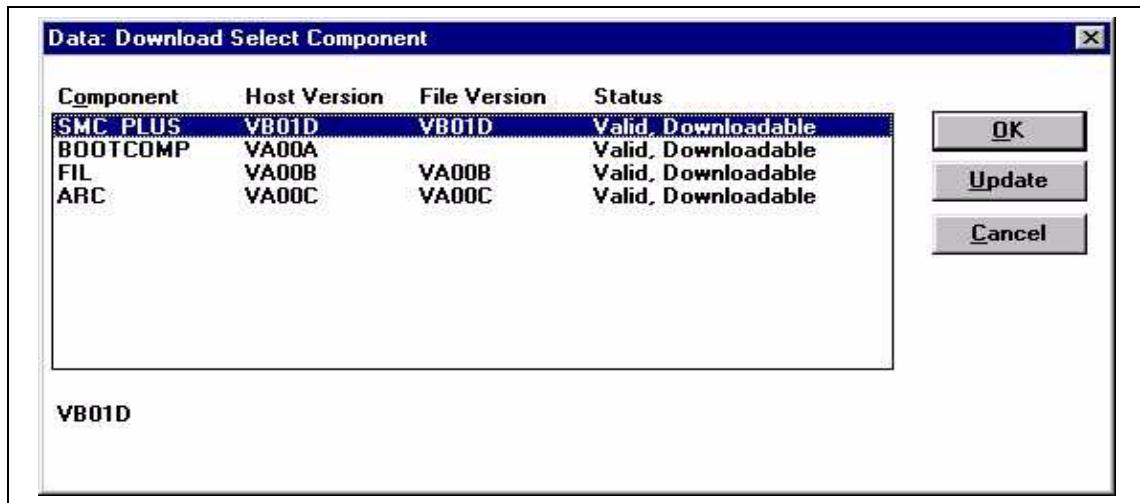
Fig. 2

- The "Data: Download Select Component" window (Fig. 2) is displayed.

NOTE	Fig. 2 shows the "Data: Download" window as an example. The current system software versions and the software versions available as files on the service PC are displayed in the "Host Version" and "File Version" columns. The displayed software versions vary according to the installed and delivered software versions.

- Select the "SMC PLUS" line and start the download by clicking on the "OK" button.
- Confirm the inquiry "Flash-EPROMs of the selected component will be erased. This process may take some time. Do you want to continue?" by clicking on the "Yes" button.
- Start download by clicking on the "Start" button.

NOTE	Only the host software (SMC PLUS) has to be updated by the download. The download procedure is the same for all SIREMOBIL types, only the software versions are different.

- After the download, wait for about one minute until the system is rebooted.
- Close the download window by clicking on the "Cancel" button.
- Separate the service program by logging off from the SIREMOBIL ("System" - "Logoff" menu).

- Enter "Update SW Vxxxx" and click on the "Put to Unit" button.
  (xxxx is here the placeholder for the SW version).

- Exit the service program by selecting the "System" - "Quit" menu.

- Switch the SIREMOBIL off and back on.

- The SIREMOBIL is ready for operation again.

- Remove the old system software disks from the system manual (or logbook) and insert the new system software disks.

Saving the patient images

⚠WARNING	**Loss of all patient images!**
	In the course of the software installation, all saved data of the Memoskop hard disk must be deleted. Refer to the "Erasing the Memoskop hard disk" paragraph.
	Before the hard disk is erased, inform the customer that all patient images (including the write-protected patient images) are no longer available.
	If a Memoskop with MOD drive is available, the still required patient images can be saved onto MOD.
	If a Multispot camera or laser camera is available, the still required patient images can be exposed onto film.

If required, save the patient images specified by the customer as hard copy or on MOD. Unfortunately, it is not possible to save the patient images using the DICOM Bridge!

Saving the MEMOSKOP parameters to disk

NOTE	**Please observe the prerequisites on page 3-3.**

NOTE	**Before downloading the Memoskop software, save the Memoskop parameters to disk. In case transfer errors when saving the parameters, please observe the notes on page 3-3 and the Memoskop upgrade flowchart.** **If the Memoskop parameters still cannot be saved to disk, they must be read out and noted manually (user setup and technical setup)**

NOTE	**If transmission errors or error messages occur when selecting the serial interface, during the "Get from Memoskop" "Put to Memoskop" or "Download" function calls, or when loading the language file, please repeat the procedure several times. If the problem persists, exit the service program, switch the SIREMOBIL off and back on, and wait for the system to reboot. Then start the service program once again and repeat the last working steps.**

NOTE	**Before installing or using the system or Memoskop service software, deactivate the write protection of the parameter disks.**

- Insert an empty, formatted disk in drive A of the service PC.

- Start the MEMOSKOP service software.

- Enter the password and press the return key on the PC.

- Select the required serial interface of the service PC.

- The "Memoskop Service Program" program window (Fig. 3) is displayed.
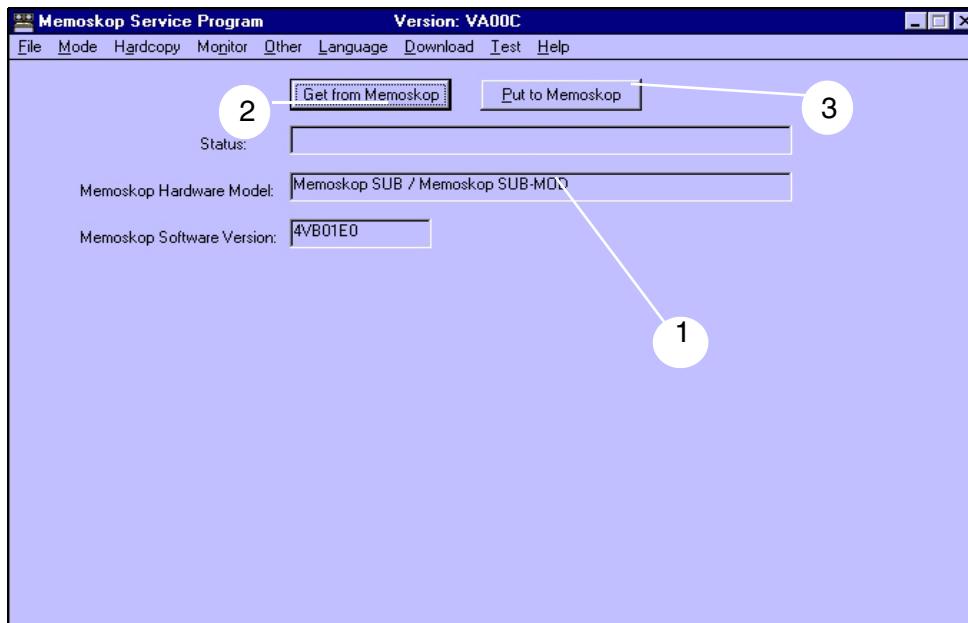
Fig. 3

- After the main menu appears, click on the "Get from Memoskop" button.

- Close the message "This will kill all your local settings in Service Memoskop" by clicking on the "OK" button. Wait until the data have been transferred from the Memoskop to the service PC. Following a correct data transfer "....Receiving configuration done" will be displayed in the status line.

- Then save the parameters to disk ("File" menu, "Save" submenu).

- Use the current date as the file name. Enter "mem" as the file extension.

Example:

The current date is: (DD_MM_YY)   28_01_03

Enter file name and file extension: 28_01_03.mem

- Wait until the data are saved to disk.

NOTE	**If errors are displayed, observe the prerequisites on page 3-3.**

NOTE	**If the Memoskop service program must be restarted, also switch the system off and back on and wait for the system to reboot (approx. 3 minutes).**

- If saving the Memoskop parameters is not possible, all parameters (user and technical setup) must be read out and noted.

Download MEMOSKOP software

NOTE	If errors occur during the Memoskop download (e.g. service PC - Memoskop communication error) observe the prerequisites on page 3-3.

In this case, stop the download and perform it as explained in the section "Download Memoskop with empty flash Proms".

The displayed Memoskop service software program windows may vary slightly.

- Insert the software disk matching the installed Memoskop version (1/Fig. 3) in drive A (MEMOSKOP software).

- Select the "Download" menu.

- Click on the "Select file for Download:" button (1/Fig. 4).
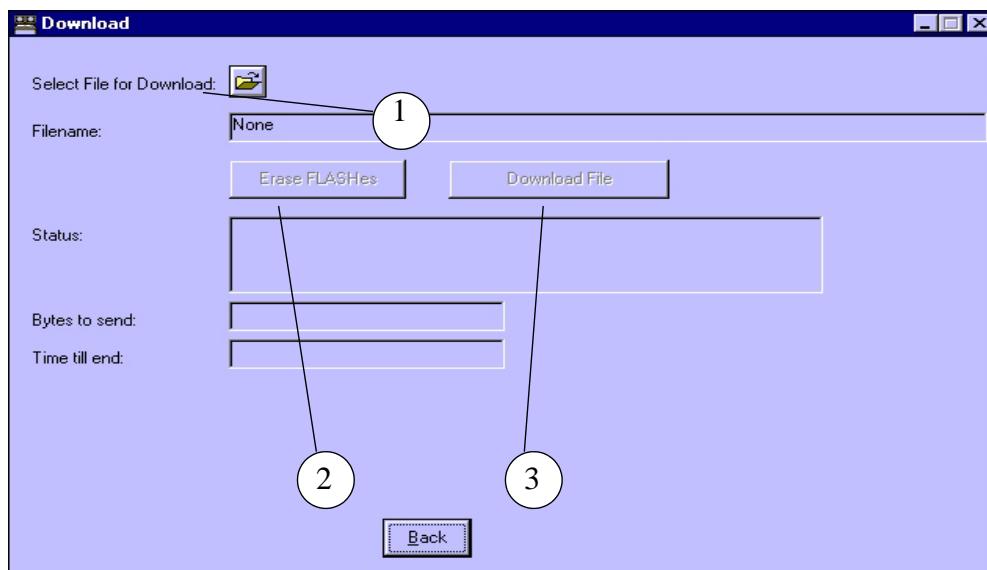
Fig. 4

- The "Open File" program window (Fig. 5) is opened.
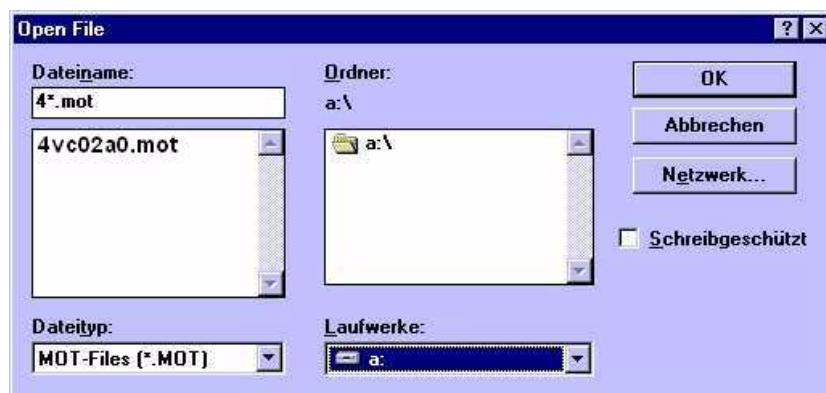
Fig. 5

- Select drive A.

- With existing Memoskop FAST, select the file 5VB00A0.mot;

- With all other types of Memoskop, select the file xVC02A0.mot (Fig. 5).
  (x = 3 or 4, depending upon the MEMOSKOP used, see following list))

x = 3	MEMOSKOP C / C-MOD	Select 3VC02A0.mot
x = 4	MEMOSKOP CSub/CSub-MOD	Select 4VC02A0.mot
x = 5	MEMOSKOP FAST	Select 5VB00A0.mot

- Confirm your selection by clicking on the "OK" button.

| NOTE	**If the Memoskop type was not automatically reported to the service program by the Memoskop, the installed Memoskop type must be listed in the selection window (Fig. 6).**
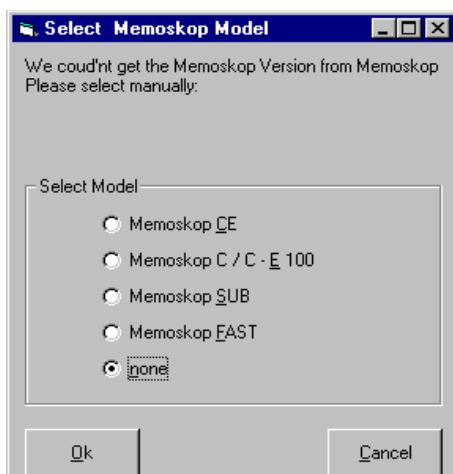
Fig. 6

- Then "Erase FLASHes" (2/Fig. 4).

- Answer the prompt "This process will erase Flashes - ARE YOU SURE" by clicking on the "Yes" button.

  ⇨ After deletion of the flash PROMs, the "...Ready" message is displayed in the status line and the download is started automatically after 30 seconds.

- After deletion of the flash PROMs, start the download by clicking on the "Start" button in the displayed window.

NOTE	**The download takes approximately 20 minutes.**

NOTE	**If errors occurred during the download (e.g. communication error or undefined characters in the status line), cancel the download and repeat it as outlined in the section "Download with empty flash PROMs".**

- Following a successful download, "Download complete without errors" will be displayed. Close the window by clicking on the "OK" button.

- Wait until the Memoskop has rebooted. The connection to the service PC will then be interrupted.

- Then press the "Back" button in the download window on the service PC and quit the service program by clicking on the "Exit" button.

- Switch the system off and back on and wait for it to boot up (approx. 3 minutes).

NOTE	**Due to the new MEMOSKOP data structure, MEMOSKOP errors can be displayed on the monitor.** **These disappear after deleting the MEMOSKOP hard disk and can be ignored at the moment.**

- Start the Memoskop service program once again.

- After a successful download of the Memoskop, skip the following section "Download MEMOSKOP with empty Flash PROMs".

Download MEMOSKOP with empty flash PROMs

NOTE	**This section describes the download process for Memoskops with empty Flash PROMs. If the download was performed successfully - as described in the previous section - skip this section.**

- Switch the system off and close the service program.

- Open the cover of the SIREMOBIL basic unit and the rear cover of the monitor cart.

- Set the service switch (DIP switch) D1.S3.2 to the ON position.

- Switch the system back on. Ignore error messages on the display of the basic unit.

- Depending on the Memoskop type installed, insert the supplied Memoskop software disk in drive A.

- Start the MEMOSKOP service program and enter the password.

- Select the service PC serial interface used.

- Ignore the "No communication with the X-Ray system" error message by clicking on the "Ignore" button.

- In response to the error message "The Program didn't receive the version message from the Memoskop", select the installed Memoskop type.
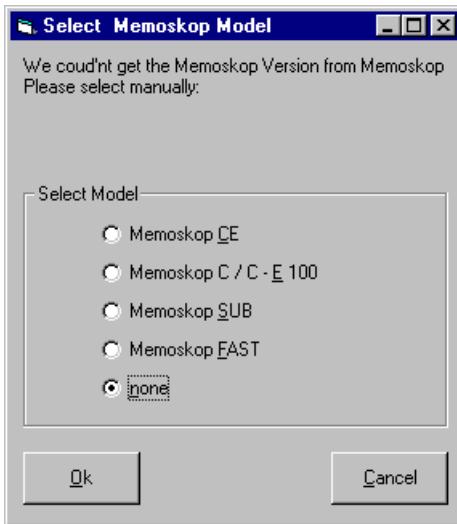

Fig. 7

Installed Memoskop type: Select line:

Memoskop C / Memoskop C & MOD   MEMOSKOP C / C-E 100

Memoskop C-SUB / Memoskop C-SUB & MOD   MEMOSKOP Sub

Memoskop FAST   Memoskop FAST

- Select the "Download" menu in the main window of the Memoskop service software.

- Click on the "Select file for Download:" button in the download window (1 / Fig. 8).
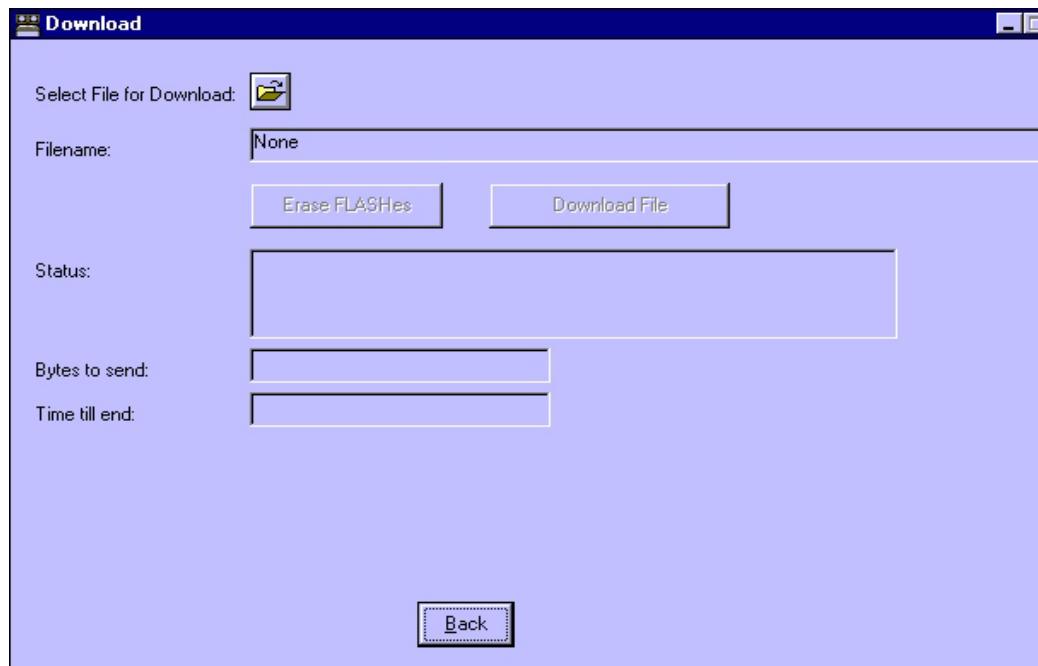

Fig. 8

- The "Open File" program window is displayed.
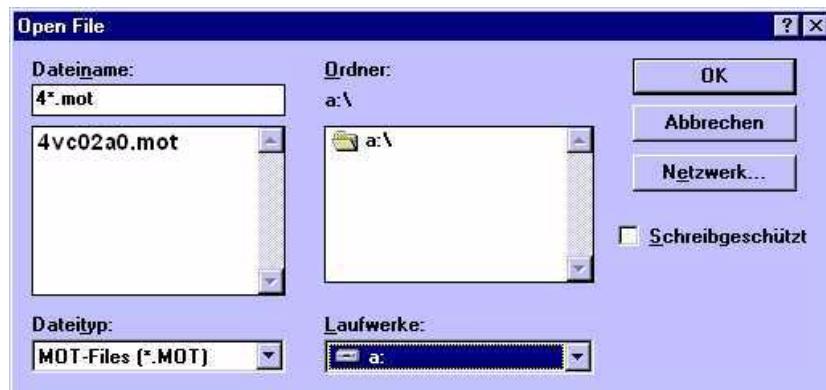
Fig. 9

- Select drive A.

- With existing Memoskop FAST, select the file 5VB00A0.mot and confirm your selection with "OK".

- With all other types of Memoskop, select the file xVC02A0.mot (Fig. 5) and confirm your selection with "OK".
  (x = 3 or 4, depending on the installed MEMOSKOP type)

x = 3   MEMOSKOP C / C-MOD   Select 3VC02A0.mot
x = 4   MEMOSKOP CSub/CSub-MOD   Select 4VC02A0.mot

- Select "Erase FLASHes".

- Then press the reset button on the back of the Memoskop.

⇨   Dots will be displayed in the status line while the flash PROM is being deleted.

⇨   When the flash PROM has been deleted, the "...Ready" message is displayed in the status line and the download is automatically started after 30 seconds.

- After deletion of the flash PROMs, start the download by clicking on the "Start" button in the displayed window..

NOTE	**The download process takes approximately 20 minutes.**

NOTE	**If errors occurred during the download (e.g. communication error or undefined characters in the status line) observe the notes on page 3-3.**
	Cancel the download process, switch the system off and attempt a download several times as described in the section "Download with empty flash PROMs".

- Following a successful download, "Download complete without errors" will be displayed.

- Close the window by clicking on the "OK" button.

- Wait until the Memoskop has rebooted. The connection to the service PC is then interrupted.

- Close the download window by clicking on the "Back" button.

- End the service program by clicking on the "Exit" button.

- Switch the system off.

- Set service switch D1.S3.2 back to the OFF position.

- Switch the system back on and wait for it to boot up.

NOTE	**Due to the new MEMOSKOP data structure, MEMOSKOP errors can be displayed on the monitor.** **These disappear after deleting the MEMOSKOP hard disk and can be ignored at the moment.**

- Start the Memoskop service program once again.

Erasing the MEMOSKOP hard disk

| ⚠ **WARNING** | **Loss of all patient images!** |

The following work describes erasing the MEMOSKOP hard disk.

Before the hard disk is erased, inform the customer that all patient images (including the write-protected patient images) are no longer available.

If a Memoskop with MOD drive is available, the still required patient images can be saved onto MOD.

If a Multispot camera or laser camera is available, the still required patient images can be exposed onto film.

- Call up the Technical Setup (CTRL + T) on the MEMOSKOP.

- Select the "Diagnostics" menu.

- Select the "Erase internal Disk" submenu and select "Yes" with the cursor keys. Deletion of the data is started by pressing the Return key.

- After deletion, exit the Technical Setup again by pressing the "Home" key.

Loading the language files

| NOTE	**This section can be skipped for English speaking countries (default language).**
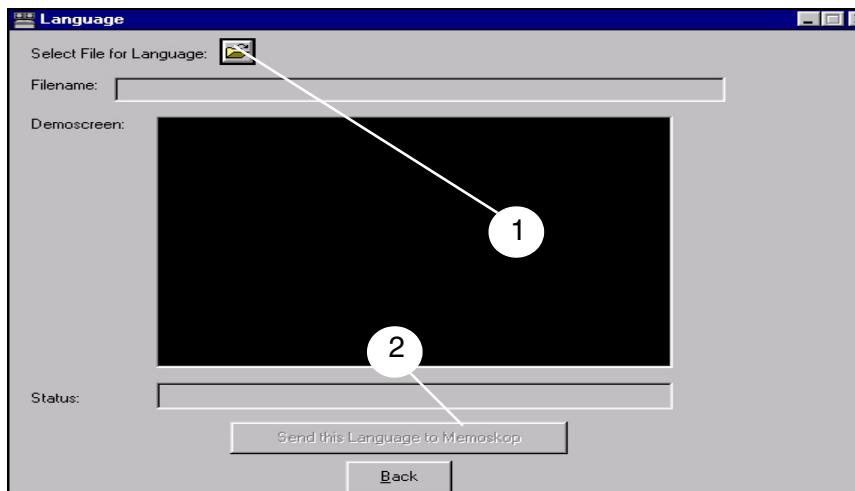
Fig. 10

- Select the "Language" menu in the "Memoskop Service Program" window (Fig. 3).

- The "Transferring Language" window is displayed (Fig. 10).

- Insert the disk with the language files (on the MEMOSKOP software disk) in drive A.

- Click on the Select file: "Language File" button (1/Fig. 10).

- The "Open File" window is displayed.

- Select drive A.

- Select the required language file and confirm by clicking on the "Open" button..

Language	Type of Memoskop	
	Memoskop FAST	alle other types of Memoskop
German:	GERMANF2.TXT*	GERMAN04.TXT*
French:	FRENCHF2.TXT*	FRENCH04.TXT*
Spanish:	SPAINF2.TXT*	SPAIN04.TXT*
Italian:	ITALIAF2.TXT*	ITALIA04.TXT*
English:	Default language, loading of the language not necessary.	

The language file names include a identification of the revision level.

Example Memoskop FAST: "GERMAN**F2**.TXT", all other types of Memoskop: "GERMAN**04**.TXT". The revision level **F2** and **04** are valid at the date of the publication of this document, but may change in the future with the release of new language files. Therefore the identification of the revision level may differ.

- Select the "Send this Language to Memoskop" button (2/Fig. 10).

  ⇨ If an error message is displayed the first time the language file is loaded, select the "Send this Language to Memoskop" button again.

  ⇨ Following successful transfer of the language file, the "Language load done" status line will be displayed.

- Close the window by clicking on the "Back" button.

Testing the Memoskop

- Select the "User Setup" on the Memoskop keyboard.

- The displayed menus must be shown in the selected language.

- The software version of the MEMOSKOP must be displayed in the second line.

- Exit the "User Setup" with the "Home" key.

Installation of the pcAnywhere program

NOTE	**The pcAnywhere program was delivered with the DICOM Bridge. Different versions of the program were included.**
	A few files on the DICOM Bridge must be renewed to start up the DICOM Get Worklist functionality.
	The pcAnywhere program must be installed on the service PC for this purpose.
	Perform the installation according to the DICOM Bridge installation and setting instructions.

- Remove the pcAnywhere program from the logbook of the system and install it on the service PC. Observe the installation instructions of the program.

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Configuring the pcAnywhere interface

NOTE	The displayed windows may vary according to the installed pcAnywhere software version.

- Start the pcAnywhere program on the service PC.
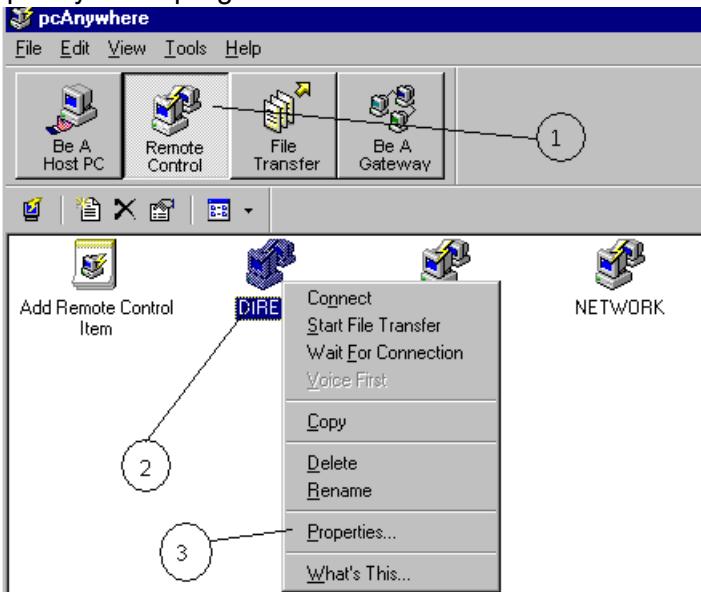

Fig. 1

- Select the Remote Control button (1/Fig. 1).

- Place the cursor above the "Direct" icon (2/Fig. 1) and press the right mouse button. The menu (3/Fig. 1) appears.

- Click on the "Properties..." line. The "DIRECT Properties" window (Fig. 2) is displayed.
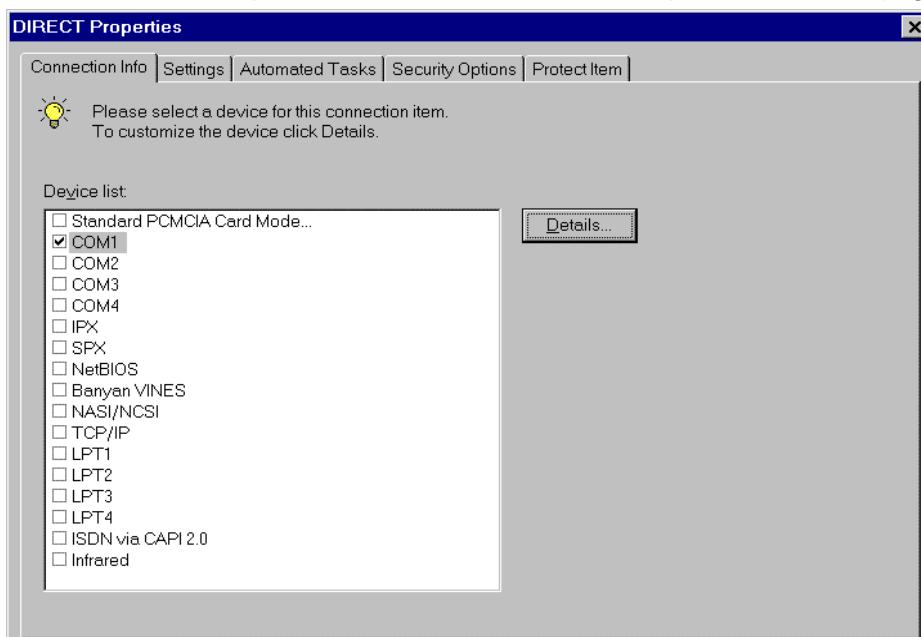
Fig. 2

- Click on "COM1" (or "COM2", if the COM2 port is used) in the window shown in Fig. 2.

- Then click on the "Details" button.

- Select the settings according to Fig. 3 and close the window shown in Fig. 3 by clicking on the "OK" button.

- Also close the "DIRECT Properties" window by clicking on the OK button.
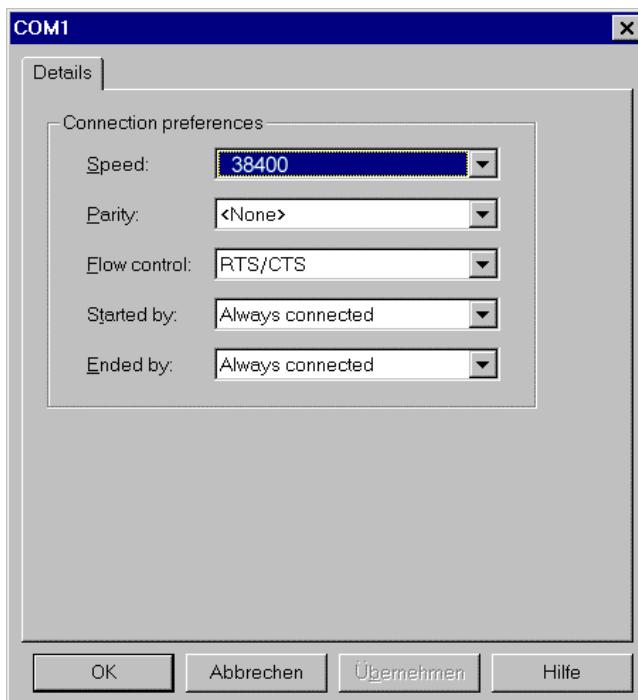
Fig. 3

Connection to the DICOM Bridge

HINWEIS	**The operating system WINDOWS NT 4 of the DICOM Bridge is set to the American keyboard layout. Your service PC is set to your country-specific keyboard layout. For this reason, special characters, as for example the underscore "_", can be allocated to different keys.**

Prerequisites

- The serial connection cable is connected between DICOM Bridge, COM2 connector and the serial interface of the service PC.

- The system (incl. DICOM Bridge) is switched on and ready. Observe the booting time of approx. 3 minutes.

- The service PC is started.

- The pcAnywhere program is started.

NOTE	**After switching the system on, wait until the booting time of approx. 3 minutes is over. The system will boot up in approx. 30 seconds. However, the DICOM Bridge requires a booting time of roughly 3 minutes. There is no status indication. If the system is operated when the DICOM Bridge has not yet completely booted, then the DICOM Bridge will not be correctly booted. In this case switch the system off and back on again and wait until the booting time of 3 minutes.**

Connection to the pcAnywhere program

- Select the "Remote Control" icon in the pcANYWHERE window and then double-click on the "DIRECT" icon in the lower part of the window.
  The connection to the DICOM Bridge will be opened.
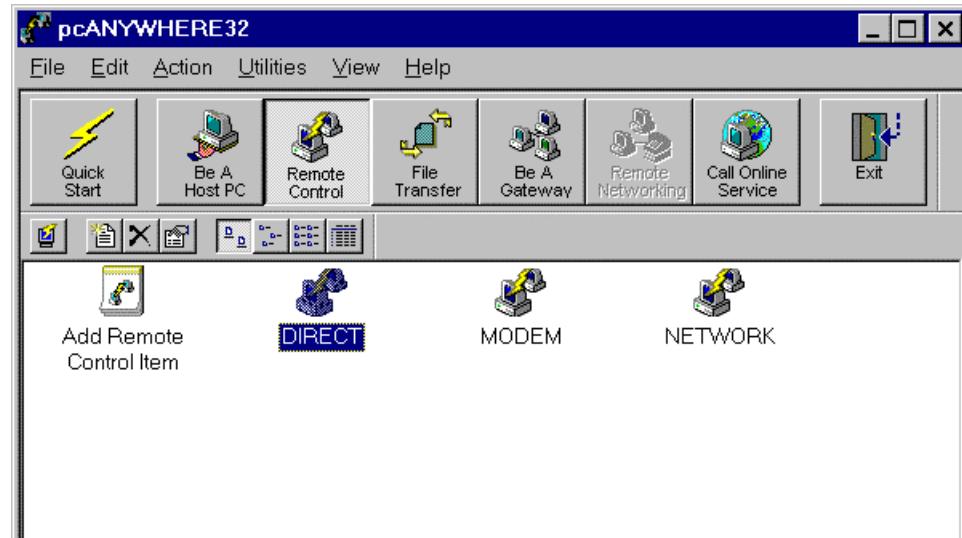
Fig. 4

- The DICOM Bridge screen is displayed in the "(Name of the DICOM Bridge) - pcANYWHERE" window.

- The upper row of icons is used for setting the pcANYWHERE program (PcANYWHERE area).

• All icons and menus located below this level belong to the DICOM Bridge
  (DICOM Bridge area). The corresponding programs / functions on the DICOM Bridge are
  executed by selecting the icons.
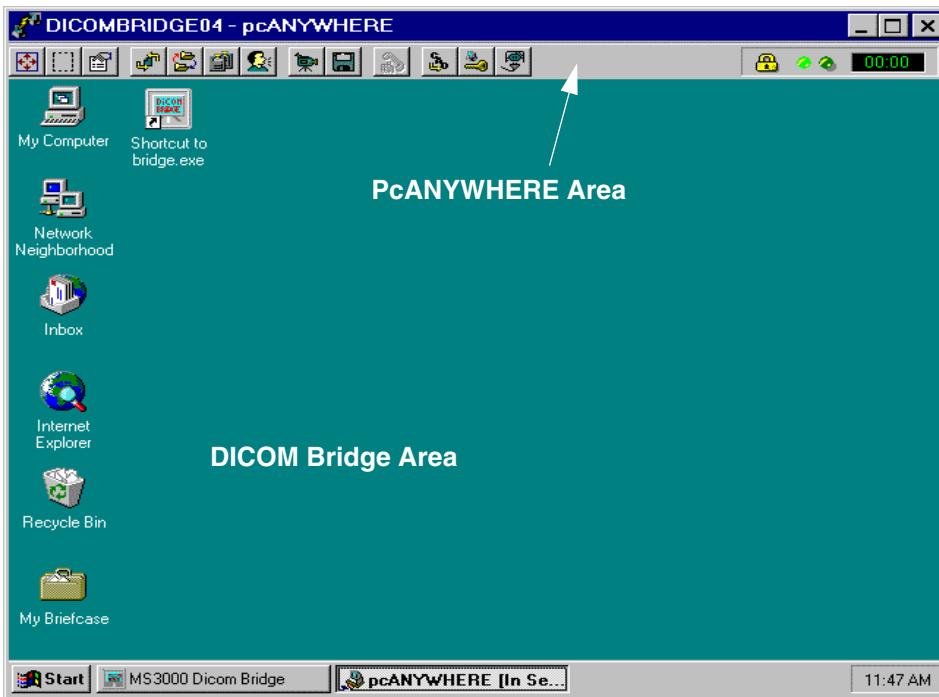
Fig. 5

Saving the configuration files

NOTE	Before transferring the new DICOM configuration files, the files existing on drive C must be saved to the "Bridge" directory.

- Select the task bar of the "MS3000 Dicom Bridge" DICOM window (1/Fig. 6) and terminate the program.
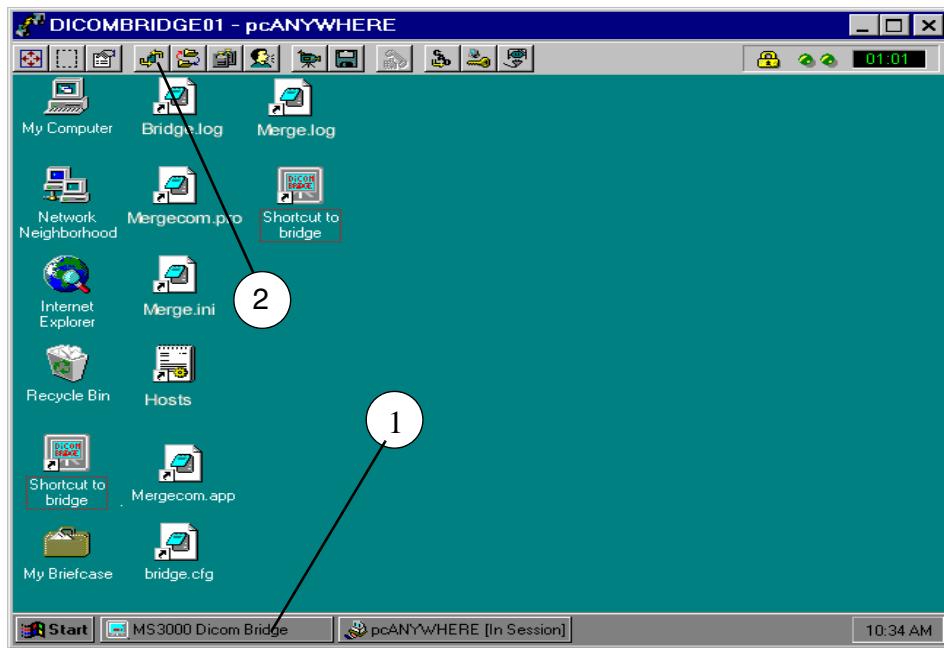
Fig. 6

- Click on the Start button in the task bar of the DICOM window and select the "Explorer" program (file manager).
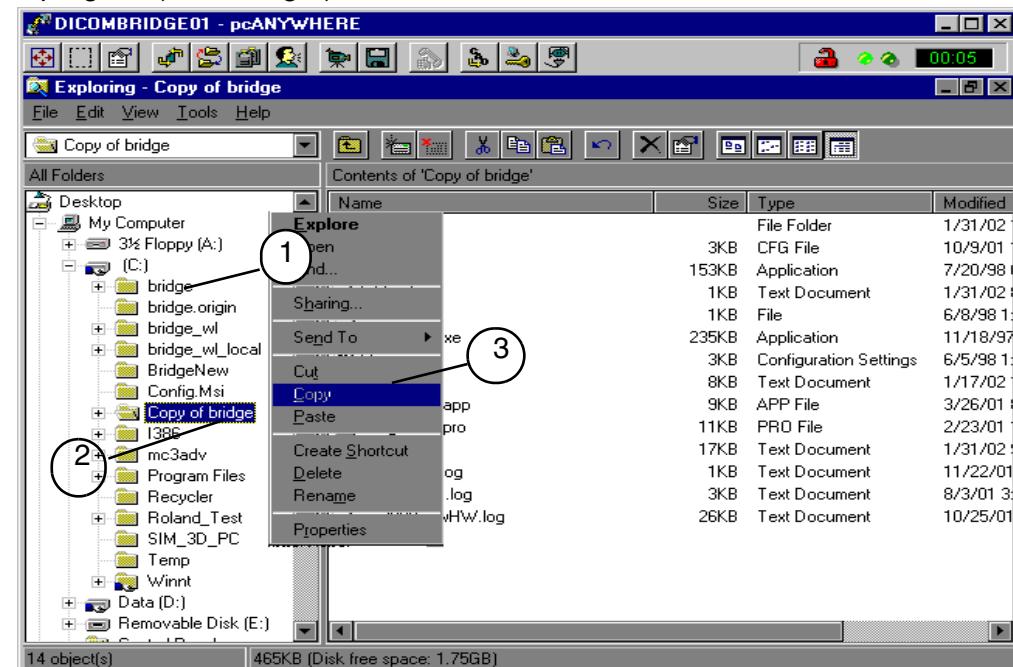
Fig. 7

- Create a copy of the "bridge" folder (1 / Fig. 7) on drive C. For this purpose, mark the "bridge" folder in the left segment of the Explorer window and press the right mouse button. Select the "Copy" line in the menu (3 / Fig. 7). Select drive C with the mouse and press the right mouse button again. Select the "Paste" line in the menu (3 / Fig. 7). The "Copy of bridge" folder will then be created (2 / Fig. 7).

- Leave the Explorer window open.

Transferring the new DICOM files to the DICOM Bridge

NOTE	**The new configuration files must be transferred from the supplied disk to the DICOM Bridge PC with the aid of the pcAnywhere program. For this purpose, the cover of the DICOM Bridge must temporarily be removed in order to access the built-in disk drive.**

- Insert the disk with the DICOM files in drive A of the DICOM Bridge.

- Create a new folder with the name "Bridge Get Worklist" on drive C in the DICOM Bridge Explorer window.
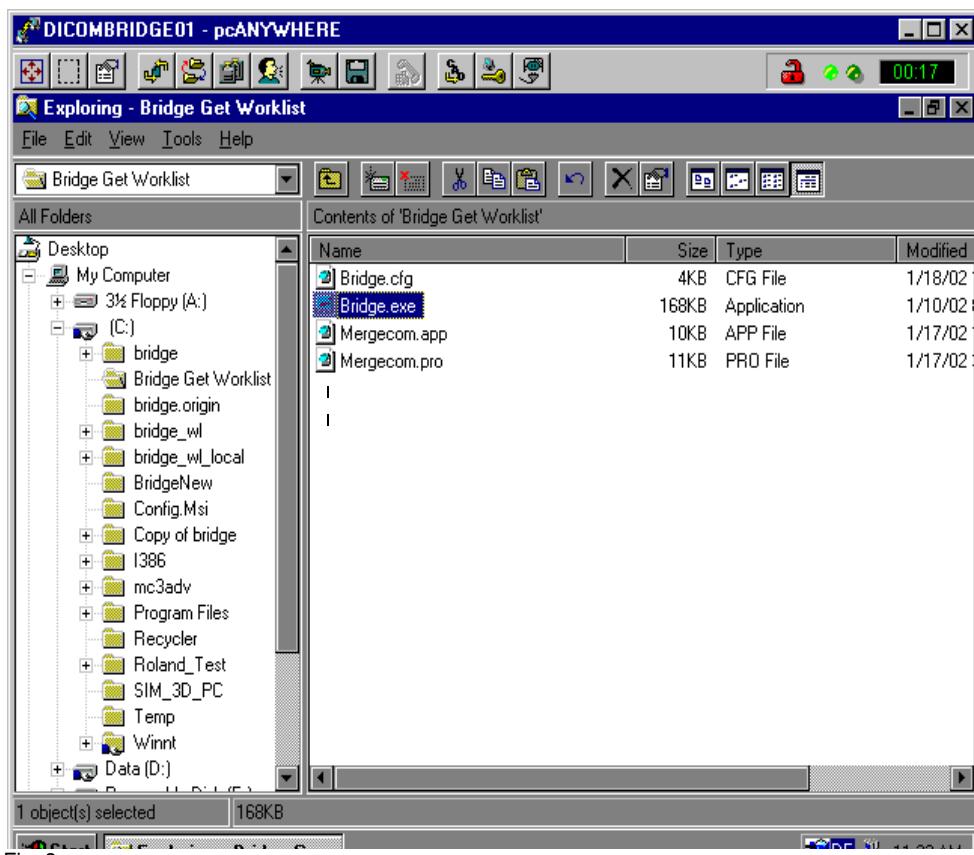
Fig. 8

- The "SW DICOM Bridge" disk, material number 3100877, is already inserted in drive A of the DICOM Bridge. Select drive A in the Explorer window. Mark all files and copy them to the "Bridge Get Worklist" folder.

- Leave the Explorer window open.

Copying the new files

- The Explorer is still open in the DICOM Bridge window of the pcAnywhere program.
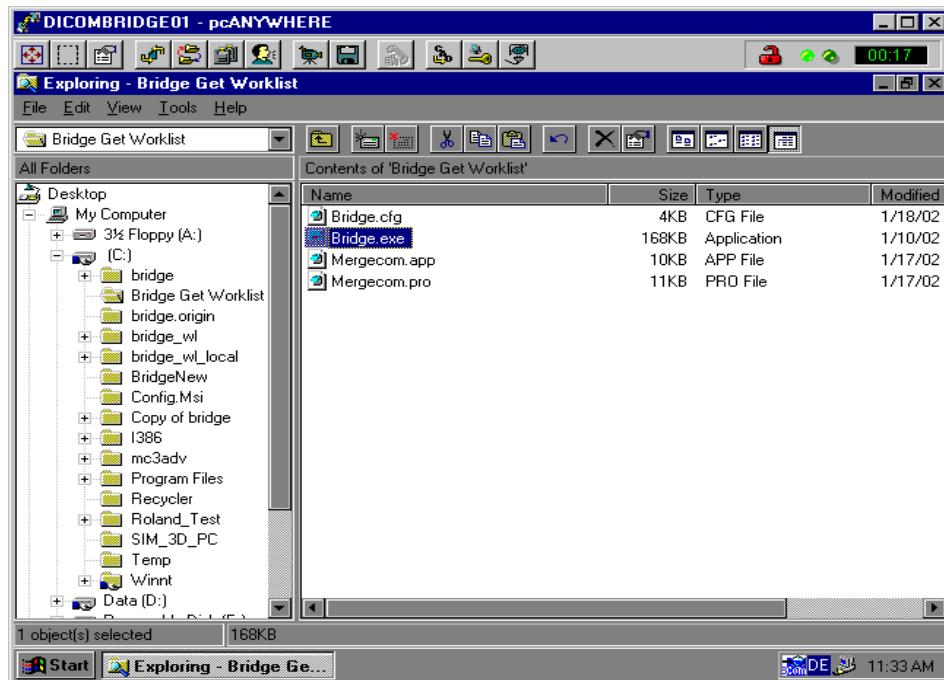
Fig. 9

NOTE	**Do <u>NOT</u> copy the two files "Bridge.cfg" and "Mergecom.app" from the "Bridge Get Worklist" folder to the "bridge" folder!**
	If you have inadvertently copied the files, you can copy the original files from the previously created "Copy of bridge" folder back into the "bridge" folder.

- In the "Bridge Get Worklist" folder, mark the two files "Bridge.exe" and "Mergecom.pro" and copy them to the "bridge" folder.

- Answer the prompt by clicking on "Yes to All".
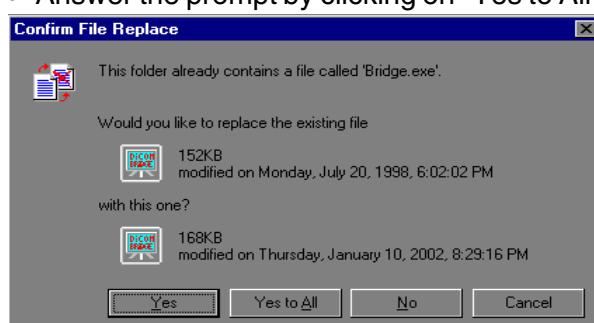
Fig. 10

Fault correction of the new file "Bridge.cfg"

NOTE	The new file "Bridge.cfg" includes 4 mistakes.

- The Explorer in the DICOM Bridge window of the pcAnywhere program is still open.

- Open the "Bridge get worklist" folder.

- Open the "Bridge.cfg" file (double-click).

- Search the following lines and change the missleading text:

In Section:	Line	Missleading text	Correct text
[INIT]	MANIFACTURER_MODEL_NAME = ...	MANIFACTURER_MODEL_NAME = ...	MANUFACTURER_MODEL_NAME = ...
[STORAGE_NODE_1]	MAX_NAMEID_LENGHT = ...	MAX_NAMEID_LENGHT = ...	MAX_NAMEID_LENGTH = ...
[STORAGE_NODE_2]	MAX_NAMEID_LENGHT = ...	MAX_NAMEID_LENGHT = ...	MAX_NAMEID_LENGTH = ...
[STORAGE_NODE_3]	MAX_NAMEID_LENGHT=	MAX_NAMEID_LENGHT = ...	MAX_NAMEID_LENGTH = ...

- Then store the file "Bridge.cfg".

Supplementing the DICOM configuration files

NOTE	To avoid full editing of the Bridge.cfg and Mergecom.app files, only the newly added configuration lines with the upgrade to the DICOM Get Worklist functionality are added in the original files.

"Bridge.cfg" file

- The Explorer in the DICOM Bridge window of the pcAnywhere program is still open.

- Open the "Bridge" folder.

- Open the "Bridge.cfg" file (double-click).

- Change to the "Bridge get worklist" folder in the Explorer.

- Open the "Bridge.cfg" file here too.

- Copy the following lines from the "Bridge.cfg" file located in the "Bridge get worklist" folder and paste them in the "Bridge.cfg" file located in the "Bridge" folder.

From "Bridge.cfg" file, "Bridge get worklist" directory		To "Bridge.cfg", file "Bridge" directory	
in section:	complete line(s):	in section:	paste below line:
[INIT]	MANUFACTURER_MODEL_NAME = ...	[INIT]	APPLICATION_TIMEOUT.....
[STORAGE_NODE_1]	MAX_NAMEID_LENGTH = ...	[STORAGE_NODE_1]	ASPECT_RATIO_INTERPOLATION
[STORAGE_NODE_1]	MAX_NAMEID_LENGTH = ...	[STORAGE_NODE_2]	ASPECT_RATIO_INTERPOLATION
[STORAGE_NODE_1]	MAX_NAMEID_LENGTH = ...	[STORAGE_NODE_3]	ASPECT_RATIO_INTERPOLATION
complete section [WORKLIST_NODE]	[WORKLIST_NODE] DESCRIPTION = ... AE_TITLE = ... HOST_NAME = ... IP_ADDRESS = ... PORT_NUM = ... MAX_WORKLIST_ENTRIES = ...	below section [STORAGE_NODE_3]	below new line MAX_NAMEID_LENGTH = ... paste empty line and then paste complete section [WORKLIST_NODE] .

- Read out and note the associated Application Entity Title (AE_TITLE = ...) in the "Bridge.cfg" file from the "Bridge" folder in the [STORAGE_NODE_3] section (required for editing the Mergecom.app file).

- Then save and close the "Bridge.cfg" files.

"Mergecom.app" file

- Open the "Bridge" folder.

- Open the "Mergecom.app" file (double-click).

- Change to the "Bridge get worklist" folder in the Explorer window.

- Open the "Mergecom.app" file here as well.

- Copy the following lines from the "Mergecom.app" file in the "Bridge get worklist" folder and paste them in the "Mergecom.app" file in the "Bridge" folder.

From "Mergecom.app" file, "Bridge get worklist" folder		To "Mergecom.app" file, "Bridge" folder	
in section:	complete lines:	in section:	insert:
[Worklist_Node_AET]	[Worklist_Node_AET] PORT_NUMBER = ... HOST_NAME = ... SERVICE_LIST = ...	below section [Storage_Node_3_AET](*1)	below line SERVICE_LIST = ... paste empty line and then paste the complete section [Worklist_Node_AET]. (*1)
[Worklist_Service_List]	[Worklist_Service_List] SERVICE_SUPPORTED = 1 ..... SERVICE_1 = MODALITY	below section [Print_Service_List]	below line SERVICE_2 = ... paste an empty line and paste the complete section [Worklist_Service_List] .

(*1) The Application Entity Title (AET) **[Storage_Node_3_AET]** is entered as the default name. If the AET was already changed on start-up of the DICOM Bridge, this name must be entered instead of the default name. In this case, find the previously noted AE_TITLE from the "Bridge.cfg file, "Bridge" folder, [STORAGE_NODE_3] section instead of [Storage_Node_3_AET]. Insert an empty line under the SERVICE_LIST = ... line and paste the complete section [Worklist_Node_AET].

For your information, the "Bridge.cfg" and "Mergecom.app" files are printed in the appendix chapter (condition on delivery).

- Then save and close the Mergecom.app file.

- Close the Explorer window of the DICOM Bridge.

Inserting the configuration data in the "Bridge.cfg" and "Mergecom.app" files

NOTE	**The lines to be edited are occupied with entries. The entries are partially only placeholders, and must be replaced by the customer-specific data. Observe the notes on the relevant lines.**

"Bridge.cfg"file

NOTE	**The icons for opening the "Bridge.cfg" and "Mergecom.app" files are displayed on the desktop. The files can be opened by double-clicking on the corresponding icons.**

- Open the "Bridge.cfg" file in the "Bridge" folder of the DICOM Bridge once again (click on the bridge.cfg icon on the DICOM Bridge desktop).

- Edit the lines listed in each of the specified sections.

- The corresponding data were recorded and assigned reference numbers [X] in Chapter 2. Enter the data corresponding to the reference numbers.

- Then save and close the file.

[INIT] section

The basic configurations of the DICOM Bridge are specified in this section.

MANUFACTURER_MODEL_NAME	Default: Siremobil
	Is sent during the communication with the DICOM network as identification of the transmitting DICOM Bridge. If several DICOM Bridges are in operation at the customer, another name can be entered for unequivocal identification.

[STORAGE_NODE_1] section

An additional parameter "MAX_NAMEID_LENGTH" is available. In most cases, the default value already entered does not need to be changed. If the receiving station installed uses MagicView300 software, decrease the value to 63.

MAX_NAMEID_LENGTH =	Default value: 64; maximum value: 64 The maximum number of characters (sum of the characters from patient name, patient ID...) that can be transmitted to the receiving station. With an existing receiving station with installed MagicView300 software, reduce the value to 63.

[STORAGE_NODE_2] section

An additional parameter, "MAX_NAMEID_LENGTH", is available. The default value already entered does not usually have to be changed. If the receiving station installed uses MagicView300 software, decrease the value to 63.

MAX_NAMEID_LENGTH =	Default value: 64; maximum value: 64 The maximum number of characters (sum of the characters from patient name, patient ID...) that can be transmitted to the receiving station. With an existing receiving station with installed MagicView300 software, reduce the value to 63.

[STORAGE_NODE_3] section

An additional parameter, "MAX_NAMEID_LENGTH", is available. The default value already entered does not usually have to be changed. If the receiving station installed uses MagicView300 software, decrease the value to 63.

MAX_NAMEID_LENGTH =	Default value: 64; maximum value: 64 The maximum number of characters (sum of the characters from patient name, patient ID...) that can be transmitted to the receiving station. With an existing receiving station with installed MagicView300 software, reduce the value to 63.

[WORKLIST_NODE] section

This section describes the settings for the worklist station (transmitting / receiving station with Dicom Get Worklist function).

NOTE	**If any settings cannot be specified by the customer's system administrator, proceed as specified by the manufacturer (Dicom Conformance Statement of the Worklist Station).**

DESCRIPTION =	Default: Worklist_Node_Name
	[1] Name of the worklist station. The worklists are called up from here and transferred to the DICOM Bridge. The name can be freely selected. If the customer assigns no name, the default entry does not have to be changed. Maximum length: 20 characters Valid characters: A..Z; a..z; 0..9 and _
AE_TITLE =	Default: Worklist_Node_AET
	[2] User program name of the worklist station.
	Delete the default entry and enter the application entity title of the worklist station.
HOST_NAME =	Default: host_4
	[3] Host name of the worklist station.
	Delete the default entry and enter the host name of the worklist station.

IP_ADDRESS =	Default: xxx.xxx.xxx.xxx
	[4] The IP address of the worklist station.
	Delete the default value and enter the IP address of the worklist station. Do not enter leading zeros. Example: Determined IP address=192.168.010.001: Entry = 192.168.10.1
PORT_NUM =	Default: 104
	[5] Port number of the network connection.
	The port number 104 is defined as the default setting for DICOM. Change as required.
MAX_WORKLIST_ENTRIES =	Default: 200; maximum value: 200 A maximum of 200 worklist entries can be transmitted from the worklist station to the DICOM Bridge. If more than the configured number of data records is transmitted, then an error message is displayed.

Mergecom.app file

- Open once again the "Mergecom.app" file in the "Bridge" folder of the DICOM Bridge (click on the mergecom.app icon on the DICOM Bridge desktop).

- Edit the lines listed in each of the specified sections.

- The corresponding data were recorded and assigned reference numbers [X] in Chapter 2. Enter the data corresponding to the reference numbers.

- Then save and close the file.

[WORKLIST_NODE_AET] section

[WORKLIST_NODE_AET]	[2] Replace the name of the WORKLIST_NODE_AET section with the user program name of the worklist station. This entry is the same as the entry in the Bridge.cfg file, [WORKLIST_NODE] section, line AE_TITLE.
PORT_NUMBER =	Default: 104
	[5] Port number of the network connection.
	Port number 104 is defined as the default value for DICOM. Change as required.
HOST_NAME =	Default: host_4
	[3] Host name of the worklist station.
	Delete the default entry and enter the host name of the worklist station. This entry is the same as the entry in the bridge.cfg file, [WORKLIST_NODE] section, line HOST_NAME. Change it as specified by the customer's network administrator.

SERVICE_LIST =   This is a reference to the list of the services which are possible for this worklist station.
Do not change this entry.

Hosts file

NOTE

The icon for opening the "Hosts" files is available on the desktop of the DICOM Bridge (see Fig.6). A program selection window can be displayed via a double-click. Select and use the notepad program to edit the "Hosts" file.

- Open the hosts file.

- Enter a new line below the line "127.0.0.1 localhost" for the worklist station:
  "IP address" (one or more blanks) "HOST_NAME";
  and
  - Replace the "IP address" with the IP address of the worklist station [4].
  - Insert one or more blanks.
  - Replace the "HOST_NAME" by the host name of the worklist station [3].

- Insert the IP address [4] as specified by the customer's network administrator.
  Do not enter the leading zeros of the IP address.
  Example:
  Defined IP address=192.168.010.001:
  Enter 192.168.10.1

- Insert the host name [3] of the receiving station as specified by the customer's system administrator.

- Save and close the "Hosts" file.

Installation of the DICOM Bridge

- End Windows NT on the DICOM Bridge.

- Switch the system off.

- Remove the disk from drive A of the Dicom Bridge again.

- Refit the cover of the DICOM Bridge.

- Fasten the DICOM Bridge back in the monitor cart.

- All connection cables must be plugged in.

- Connect the network cable to the customer network on the network socket panel of the monitor cart.

Restart of the DICOM Bridge

- Switch the system back on and wait for it to boot (approx. 3 minutes!).
  The network settings and program settings are taken over.

- The pcAnywhere program automatically restores the connection to the DICOM Bridge.
  If not, restart the PCAnywhere program on the service PC and restore the connection by double-clicking on the DIRECT icon.

Checking the network connections

with the DOS ping command via the IP address

- In the pcAnywhere program, open an MS-DOS window in the DICOM window.

- Check the basic function of the network connection with the following command:
  - Enter the command "ping 'IP address'" in the DOS window, whereby the IP address of the worklist station to be tested must be used for 'IP address'.
    E.g. if the IP address of the worklist station is '127.0.0.1', then enter "ping 127.0.0.1" in the DOS window (the IP address 127.0.0.1 is the DICOM Bridge itself and is used here only as an example).
  - Then press the return key.
    A message similar to the following line normally appears:
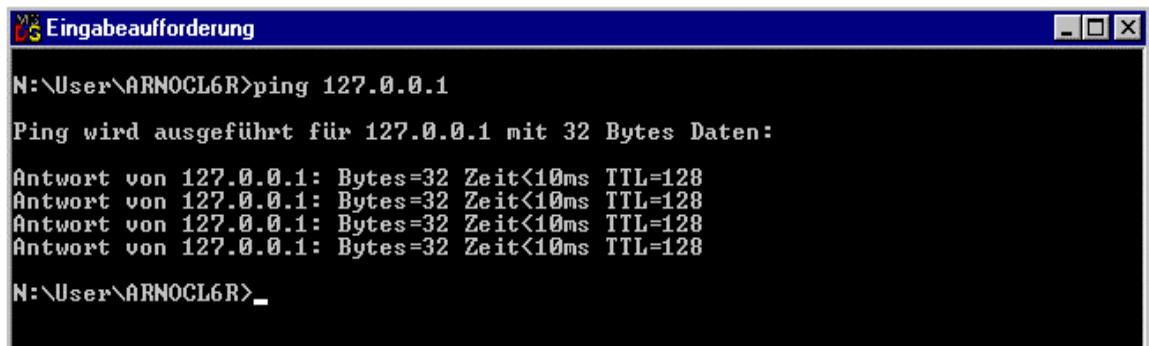

```
Eingabeaufforderung

N:\User\ARNOCL6R>ping 127.0.0.1

Ping wird ausgeführt für 127.0.0.1 mit 32 Bytes Daten:

Antwort von 127.0.0.1: Bytes=32 Zeit<10ms TTL=128
Antwort von 127.0.0.1: Bytes=32 Zeit<10ms TTL=128
Antwort von 127.0.0.1: Bytes=32 Zeit<10ms TTL=128
Antwort von 127.0.0.1: Bytes=32 Zeit<10ms TTL=128

N:\User\ARNOCL6R>_
```

Fig. 1

- In case of error messages, check the previously edited "Hosts" file again.

- If all information was correct and a network connection could not be established, contact the customer's system administrator.

with the DOS ping command via the host name

- If no error occurs in the network connection, then enter the command "ping 'Hostname'" in the DOS window; insert the network name of the worklist station as the 'Host name' here.
  The name resolution of the IP address, i.e. whether the receiving station can also be addressed with its host name, is this checked. E.g. if the host name of the worklist station is 'localhost', then enter "ping localhost" in the DOS window.

- Then press the return key.
  A message similar to the following line usually appears:

Fig. 2

- In case of error messages, check the previously edited files once again.

with the Mc3echo command
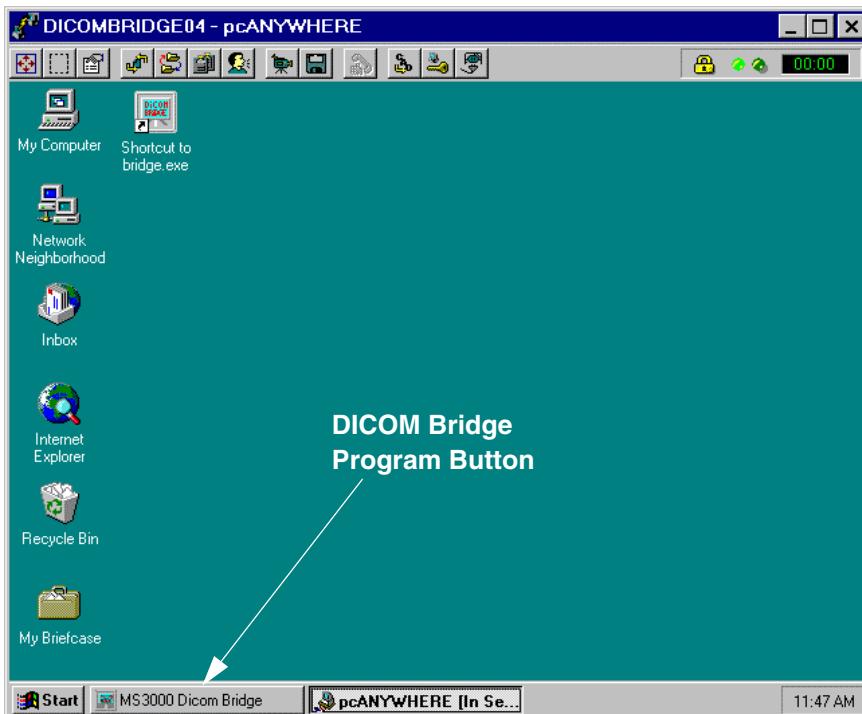
Fig. 3

Prerequisites: The DICOM Bridge program must be terminated. The worklist station must be in operation.

NOTE	**Observe uppercase - lowercase characters!**
	If an error message appears, repeat the command several times.

- In the pcAnywhere program, click on the "MS3000 DICOM Bridge" button in the DICOM window and terminate the program (see Fig. 3)

- In the pcAnywhere program, open a DOS window in the DICOM window.

- Change io the c:\bridge directory by entering "cd c:\bridge".

- Enter the command "mc3echo 'AE_TITLE' ". Here replace 'AE_TITLE' with AE_TITLE [2] of the worklist station.

- A message will be output following a successful transmission.

- Close the DOS window again.

- Then restart the MS3000 DICOM Bridge software by clicking on the "Bridge.exe" icon.

Checking the worklist data transmission

NOTE	This can be performed only if a worklist has already been created for this system in consultation with the customer.

- Open the Memoskop User Setup (CTRL + U). The user menu is displayed on the system monitor.

- Select menu "P" (worklist matching parameter). The menu shown in Fig. 4 is displayed on the system monitor.

NOTE	This menu is used to restrict the transferred worklist data. If all input fields are left empty, all worklist data will be transferred from the worklist station to the DICOM Bridge and Memoskop.

```
      Worklist Matching Parameters
1.Scheduled station AE title :
                  XXXXXXXXXXXXXXX
2.Station Name.....: XXXXXXXXXXXXXXX
3.Modality.........: XXXXXXXXXXXXXXX
4.Date Start.......: XX-XX-XXXX
5.Date Stop........: XX-XX-XXXX
6.Time Start.......: XX:XX
7.Time Stop........: XX:XX

 Press >|< to exit
 Press <-| to confirm
 Enter selection:_
```

Fig. 4

- Ask the customer for the matching parameters and enter them in the corresponding lines.

- Change to the next line in each case with the return key.

- Then exit the menu of Fig. 4 by pressing the Home key several times.

- On the Memoskop press the "NEXT PAT" key and then "ALL PAT".

- The query of the worklist from the worklist station is started and the data are transferred to the SIREMOBIL system. A line with the transferred patient data is displayed in each case in the patient folder. The required line can be selected using the cursor keys and then accepted by pressing the return key.

Image quality test

- Save the SMPTE test image under a patient name and send it to all configured receiving stations. For receiving stations with monitors, it must be possible to adjust the monitor brightness and contrast so that the 5% fields of the SMPTE test image can still be differentiated.

- Send the SMPTE test image for the printer receiving station. It still must be possible to differentiate the 5% fields of the SMPTE test image.

Concluding work

- Refit all covers.

- Perform the protective ground wire test according to ARTD-002.731.17.

- Perform a functional test of the system.

- File these instructions in the system folder, register 3.

Appendix: sample files

File Bridge.cfg

;Bridge.cfg file for Siemens MS3000 Dicom Bridge

[INIT]
APPLICATION_ENTITY_TITLE = SM_COMPACT ;DICOM Bridge Appl. Entity Title
BASE_UID = 1.3.12.2.1107.5.12.1 ;SIEMENS SIREMOBIL
APPLICATION_TIMEOUT = 120 ;Same as in mergecom.pro
MANIFACTURER_MODEL_NAME = Siremobil ;

[STORAGE_NODE_1]
DESCRIPTION = Node_Name_1 ;Destination alias name
AE_TITLE = Storage_Node_1_AET ;Destination application_title
HOST_NAME = host_1 ;Destination machine name
IP_ADDRESS = xxx.xxx.xxx.xxx ;Destination address
PORT_NUM = 104 ;port 104 is the standard
ASPECT_RATIO_CORRECTION = DISABLED ENABLED ;depends on target
ASPECT_RATIO_INTERPOLATION = BILINEAR CUBIC ;depends on requested performance
MAX_NAMEID_LENGHT = 64 ;DICOM-Standard = 64 for Patient-ID and Patient-Name

[STORAGE_NODE_2]
DESCRIPTION = Node_Name_2 ;Destination alias name
AE_TITLE = Storage_Node_1_AET ;Destination application_title
HOST_NAME = host_2 ;Destination machine name
IP_ADDRESS = xxx.xxx.xxx.xxx ;Destination address
PORT_NUM = 104 ;port 104 is the standard
ASPECT_RATIO_CORRECTION = DISABLED ENABLED ;depends on target
ASPECT_RATIO_INTERPOLATION = BILINEAR CUBIC ;depends on requested performance
MAX_NAMEID_LENGHT = 64 ;DICOM-Standard = 64 for Patient-ID and Patient-Name

[STORAGE_NODE_3]
DESCRIPTION = Node_Name_3 ;Destination alias name
AE_TITLE = Storage_Node_3_AET ;Destination application_title
HOST_NAME = host_3 ;Destination machine name
IP_ADDRESS = xxx.xxx.xxx.xxx ;Destination address
PORT_NUM = 104 ;port 104 is the standard
ASPECT_RATIO_CORRECTION = DISABLED ENABLED ;depends on target
ASPECT_RATIO_INTERPOLATION = BILINEAR CUBIC ;depends on requested performance
MAX_NAMEID_LENGHT = 64 ;DICOM-Standard = 64 for Patient-ID and Patient-Name

[WORKLIST_NODE]
DESCRIPTION = Node_Name ;Destination alias name
AE_TITLE = Worklist_Node_AET ;Destination application_title
HOST_NAME = host_4 ;Destination machine name
IP_ADDRESS = xxx.xxx.xxx.xxx ;Destination address
PORT_NUM = 104 ;port 104 is the standard
MAX_WORKLIST_ENTRIES = 200; max worklist responses

[PRINT_NODE_1]
DESCRIPTION = Printer_Name ;Destination alias name
AE_TITLE = Print_Node_AET ;Destination application_title
HOST_NAME = host_5 ;Destination machine name
IP_ADDRESS = xxx.xxx.xxx.xxx ;Destination address
PORT_NUM = 104 ;port 104 is the standard

;film format

FILM_FORMAT = STANDARD\1,1 STANDARD\2,2 STANDARD\2,3 STANDARD\3,3 STANDARD\4,5
NUMBER_COPIES = 1 ;film copies
MAX_NUMBER_COPIES = 99 ;max. film copies
COLLATION = DISABLED ENABLED ;depends on camera
ASPECT_RATIO_CORRECTION = DISABLED ENABLED ;depends on camera
ASPECT_RATIO_INTERPOLATION = BILINEAR CUBIC ;depends on requested performance

;GROUP 0x2000
2000,0020 MED HIGH LOW <NONE> ;Print Priority
2000,0030 BLUE_FILM CLEAR_FILM PAPER <NONE> ;Medium Type
2000,0040 PROCESSOR MAGAZINE <NONE> ;Film Destination
2000,0050 SIEMENS_SIREMOBIL_Compact ;Film Session Label

;GROUP 0x2010
2010,0040 LANDSCAPE PORTRAIT ;Film Orientation
2010,0050 8INX10IN ;Film Size ID
2010,0060 NONE REPLICATE BILINEAR CUBIC ;Magnification Type
2010,0080 140 ;Smoothing Type
2010,0100 BLACK ;Border Density=BLACK,WHITE or i in hundreds of OD
2010,0110 BLACK ;Empty Image Density=BLACK,WHITE or i in hundreds of OD
2010,0120 20 ;Min density
2010,0130 320 ;Max density - Value expressed in hundreds OD
2010,0140 NO YES ;Trim

;GROUP 0x2020
2020,0020 NORMAL REVERSE ;Polarity

File Mergecom.app

```
#=============================================================================
#                   MERGECOM-3 Application Configurations
#=============================================================================
#
#           ==== MergeCOM-3 Application Profiles ===
#
#    The location of this file is provided in the MERGECOM_3_APPLICATIONS
#       parameter of the [MergeCOM3] section of the MERGE.INI file
# .
#=============================================================================
#
# Contains the following sections:
# [<remote_application_title>]- Section describing a remote DICOM application
#                   <remote_application_title> names must be
#                   1 to 16 bytes in length with no embedded
#                   spaces.
#
# [<service_list_name>]      - List[s] of DICOM services (referenced by
#                   entries in the [<remote_application_title>]
#                   sections.
#                   <service_list_name> names must be
#                   1 to 33 bytes in length with no embedded spaces.
#
# [<syntax_list_name>]      - List[s] of DICOM transfer syntaxes (referenced
#                   by optional entries in the [<service_list_name>]
```

```
#                    sections.
#                    <syntax_list_name> names must be
#                    1 to 33 bytes in length with no embedded spaces.



# Each [<remote_application_title>] section is of this format:
#     PORT_NUMBER    = <port>        is the TCP/IP port on which the
#                    remote DICOM system listens for
#                    connections.  The commonly used port
#                    number is 104. This default value may
#                    be overridden by the
#                    MC_Open_Association() function call.
#     HOST_NAME      = <TCP/IP name>   is the name of the remote host as it
#                    is known to your TCP/IP system.  This
#                    default value may be overridden by
#                    the MC_Open_Association() function
#                    call.
#                    <TCP/IP name> must be 1 to 19 bytes
#                    in length with no embedded spaces.
#     SERVICE_LIST   = <list name>     is the name of another section in
#                    this file which provides a list of
#                    services local applications will
#                    negotiate for when attempting to
#                    establish an association.  This is a
#                    default list; another list may be
#                    specified in the
#                    MC_Open_Association() or
#                    MC_Wait_For_Association() calls.
#                    <list name> names must be 1 to 33
#                    bytes in length with no embedded
#                    spaces.

[Storage_Node_1_AET]
   PORT_NUMBER    = 104      # port 104 is the standard DICOM
#                    port and is privileged
   HOST_NAME      = host_1    # Put your machine name here
   SERVICE_LIST   = Storage_Service_List


[Storage_Node_2_AET]
   PORT_NUMBER    = 104      # port 104 is the standard DICOM
#                    port and is privileged
   HOST_NAME      = host_2    # Put your machine name here
   SERVICE_LIST   = Storage_Service_List


[Storage_Node_3_AET]
   PORT_NUMBER    = 104      # port 104 is the standard DICOM
#                    port and is privileged
   HOST_NAME      = host_3    # Put your machine name here
   SERVICE_LIST   = Storage_Service_List


[Worklist_Node_AET]
   PORT_NUMBER    = 104      # port 104 is the standard DICOM
#                    port and is privileged
   HOST_NAME      = host_4    # Put your machine name here
   SERVICE_LIST   = Worklist_Service_List


[Print_Node_AET]
```

```
    PORT_NUMBER    = 104      # port 104 is the standard DICOM
#                           port and is privileged
    HOST_NAME      = host_5   # Put your machine name here
    SERVICE_LIST   = Print_Service_List
```

```
# Each [<service_list_name>] section must contain a SERVICES_SUPPORTED
#     parameter to specify the number of services in the list; plus
#     two parameters for each service, of the following format:
#
#     SERVICE_n = <service name>
#     SYNTAX_LIST_n = <syntax_list_name>  (this parameter is optional)
#
#     where:
#           SERVICE_n      the character string "SERVICE_n", with n
#                          replaced by the number of the service being
#                          named.
#           SYNTAX_LIST_n  the character string "SYNTAX_LIST_n", with n
#                          replaced by the number of the service for
#                          which a list of transfer syntaxes to support
#                          is specified.
#           <service name>  is the name of one of the services supported by
#                          your MergeCOM-3 system.  It must match one of
#                          the service names described in the MergeCOM-3
#                          Services Profile (named by the
#                          MERGECOM_3_SERVICES parameter in the merge.ini
#                          file).
#           <syntax_list_name>  is the name of a section that contains a
#                          list of transfer syntaxes to support.  This
#                          parameter is optional.
#
# If a transfer syntax list is not specified, the tool kit will use the three
# non-encapsulated transfer syntaxes defined in the mergecom.pro configuration
# file (implicit VR little endian, explicit VR little endian and explicit VR big
# endian).
```

```
[Storage_Service_List]
    SERVICES_SUPPORTED     = 1      # Number of Services in list
    SERVICE_1          = STANDARD_SEC_CAPTURE
```

```
[Print_Service_List]
    SERVICES_SUPPORTED     = 2      # Number of Services in list
    SERVICE_1          = BASIC_GRAYSCALE_PRINT_MANAGEMENT
    SERVICE_2          = PRINT_JOB
```

```
[Worklist_Service_List]
    SERVICES_SUPPORTED     = 1      # Number of Services in list
    SERVICE_1          = MODALITY_WORKLIST_FIND
```

```
# Each [<syntax_list_name>] section must contain a SYNTAXS_SUPPORTED
#     parameter to specify the number of transfer syntaxes in the
#     list; plus one parameter for each syntax, of the following format:
#
```

```
#       SYNTAX_n = <transfer syntax name>
#
#       where:
#               SYNTAX_n        the character string "SYNTAX_n", with n
#                               replaced by the number of the transfer
#                               syntaxes being named.
#               <transfer syntax name>  is the name of one of the transfer
#                               syntaxes supported by your MergeCOM-3 system.
#                               It must match one of the following DICOM transfer
#                               syntaxes:
#                       IMPLICIT_LITTLE_ENDIAN
#                       IMPLICIT_BIG_ENDIAN
#                       EXPLICIT_LITTLE_ENDIAN
#                       EXPLICIT_BIG_ENDIAN
#                       RLE
#                       JPEG_BASELINE
#                       JPEG_EXTENDED_3_5
#                       JPEG_SPEC_NON_HIER_3_5
#                       JPEG_SPEC_NON_HIER_6_7
#                       JPEG_FULL_PROG_NON_HIER_10_12
#                       JPEG_FULL_PROG_NON_HIER_11_13
#                       JPEG_LOSSLESS_NON_HIER_14
#                       JPEG_LOSSLESS_NON_HIER_15
#                       JPEG_EXTENDED_HIER_16_18
#                       JPEG_EXTENDED_HIER_17_19
#                       JPEG_SPEC_HIER_20_22
#                       JPEG_SPEC_HIER_21_23
#                       JPEG_FULL_PROG_HIER_24_26
#                       JPEG_FULL_PROG_HIER_25_27
#                       JPEG_LOSSLESS_HIER_28
#                       JPEG_LOSSLESS_HIER_29
#                       JPEG_LOSSLESS_HIER_14
#
# Note that the order that these transfer syntaxes are listed
# defines how SCP applications using the tool kit will select
# them during association negotiation.  The tool kit will place
# the highest priority on the first syntax and decreasing
# priority on following syntaxes in the transfer syntax list.

# Example syntax list used by the Storage_Service_List above.
```

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Chap. 0   Cover, revision level, table of contents changed

Chap. 1   POWERMOBIL / ARCOSKOP worklist functionality added

Chap. 2   POWERMOBIL / ARCOSKOP worklist functionality added

Chap. 3   POWERMOBIL / ARCOSKOP worklist functionality added

Chap. 5   POWERMOBIL / ARCOSKOP worklist functionality added

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